

WHAT IS CLAIMED IS:

1. An in-plane switching mode liquid crystal display device comprising:

5 a plurality of data lines for applying data signals to a thin film transistor array;

a plurality of gate lines for applying gate signals to the thin film transistor array;

10 a plurality of gate links extended from the plurality of gate lines into an outer area of the thin film transistor array; and

a plurality of common voltage lines, being provided in such a manner to cross the plurality of gate links, for applying a common voltage to the thin film transistor array.

2. The in-plane switching liquid crystal display device according to claim 1, wherein the common voltage lines are provided at the thin film transistor array to be in parallel to the gate lines.

3. The in-plane switching liquid crystal display device according to claim 1, wherein the common voltage is approximately +5V.

25 4. The in-plane switching liquid crystal display device according to claim 1, wherein the gate signals include a gate low voltage signal of approximately -5V.

30 5. The in-plane switching liquid crystal display device according to claim 1, wherein the gate signals include a gate high voltage signal of approximately +20V.

6. An in-plane switching mode liquid crystal display device,  
comprising:

first and second substrates;

5 a plurality of data lines;

a plurality of gate lines perpendicular to the data  
lines;

10 a plurality of thin film transistors at crossing points  
of the data and gate lines and forming a thin film transistor  
array on the first substrate;

a plurality of gate links extended from the plurality of  
gate lines into an area outside of the thin film transistor  
array; and

15 a plurality of common voltage lines parallel to the gate  
lines and crossing the gate links.

7. The in-plane switching liquid crystal display device of  
claim 6, further comprising:

20 a plurality of gate pads connected to the gate links and  
electrically disposed between the gate links and an external  
power source; and

25 a plurality of common voltage pads connected to the  
common voltage lines and electrically disposed between the  
common voltage lines and the external power source.

30 8. The in-plane switching liquid crystal display device of  
claim 7, wherein the gate pads are located in the area outside  
of the thin film transistor array.

9. The in-plane switching liquid crystal display device of  
claim 7, wherein the common voltage pads are located in the

area outside of the thin film transistor array.

10. An in-plane switching mode liquid crystal display device comprising:

5 a plurality of data lines for applying data signals to a thin film transistor array;

a plurality of gate lines for applying gate signals to the thin film transistor array;

10 a plurality of signal pads in a signal pad area outside the thin film transistor array; and

a plurality of common lines, at least one of said common lines extending between the signal pads and the thin film transistor array.

11. The in-plane switching liquid crystal display device of claim 10, wherein the signal pads are gate pads for applying the gate signals to the gate lines.

12. The in-plane switching liquid crystal display device of claim 11, wherein the at least one common line crosses the gate lines in an area between the gate pads and the thin film transistor array.

13. The in-plane switching liquid crystal display device of claim 11, wherein the at least one common line is parallel to the data lines.

14. The in-plane switching liquid crystal display device of claim 10, wherein the signal pads are data pads for applying the data signals to the data lines.

15. The in-plane switching liquid crystal display device of

claim 14, wherein the at least one common line crosses the data lines in an area between the data pads and the thin film transistor array.

16, The in-plane switching liquid crystal display device of claim 14, wherein the at least one common line is parallel to the data lines.

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